

Appl. No. 10/625,796
Reply to Office Action of May 13, 2005

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-16 (Canceled)

17. (Currently Amended) A method for manufacturing high strength hot dip zinc-coated steel sheet comprising the steps of: hot-rolling a steel slab consisting essentially of 0.01 to 0.3% C, 0.7% or less Si, 1 to 3% Mn, 0.08% or less P, 0.01% or less S, 0.08% or less sol.Al, and 0.007% or less N, by weight, at temperatures of Ar, transformation point or above; cooling the hot-rolled steel sheet within 2.5 seconds down to the temperatures of from above 500°C to 700°C at average cooling speeds of 100°C/sec or more, followed by coiling the cooled steel sheet; and picking or pickling the coiled steel sheet, or pickling the coiled steel sheet and cold-rolling the coiled pickled steel sheet, then annealing thereto in a continuous hot dip zinc-coating line at temperatures of 720°C or above to perform zinc coating.

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18. (Original) The method for manufacturing high strength hot dip zinc-coated steel sheet of claim 17, wherein the steel slab further contains at least one element selected from the group consisting of 0.005 to 0.5% Nb, 0.005 to 0.5% Ti, and 0.0002 to 0.005% B.

19. (Original) The method for manufacturing high strength hot dip zinc-coated steel sheet of claim 17, wherein the steel slab further contains at least one element selected from the group consisting of 0.01 to 1% V, 0.01 to 1% Cr, and 0.01 to 1% Mo.

20. (Original) The method for manufacturing high strength hot dip zinc-coated steel sheet of claim 18, wherein the steel slab further contains at least one element selected from the group consisting of 0.01 to 1% V, 0.01 to 1% Cr, and 0.001 to 1% Mo.

21. (Original) The method for manufacturing high strength hot dip zinc-coated steel sheet of claim 17, wherein the steel sheet after completed the hot-rolling is cooled in a period of from more than 0.5 second to 2.5 seconds at average cooling speeds of 100°C/sec or more.

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22. (Original) The method for manufacturing high strength hot dip zinc-coated steel sheet of claim 18, wherein the steel sheet after completed the hot-rolling is cooled in a period of from more than 0.5 second to 2.5 seconds at average cooling speeds of 100°C/sec or more.

23. (Original) The method for manufacturing high strength hot dip zinc-coated steel sheet of claim 19, wherein the steel sheet after completed the hot-rolling is cooled in a period of from more than 0.5 second to 2.5 seconds at average cooling speeds of 100°C/sec or more.

24. (Original) The method for manufacturing high strength hot dip zinc-coated steel sheet of claim 20, wherein the steel sheet after completed the hot-rolling is cooled in a period of from more than 0.5 second to 2.5 seconds at average cooling speeds of 100°C/sec or more.

Claims 25 to 40 (canceled).